

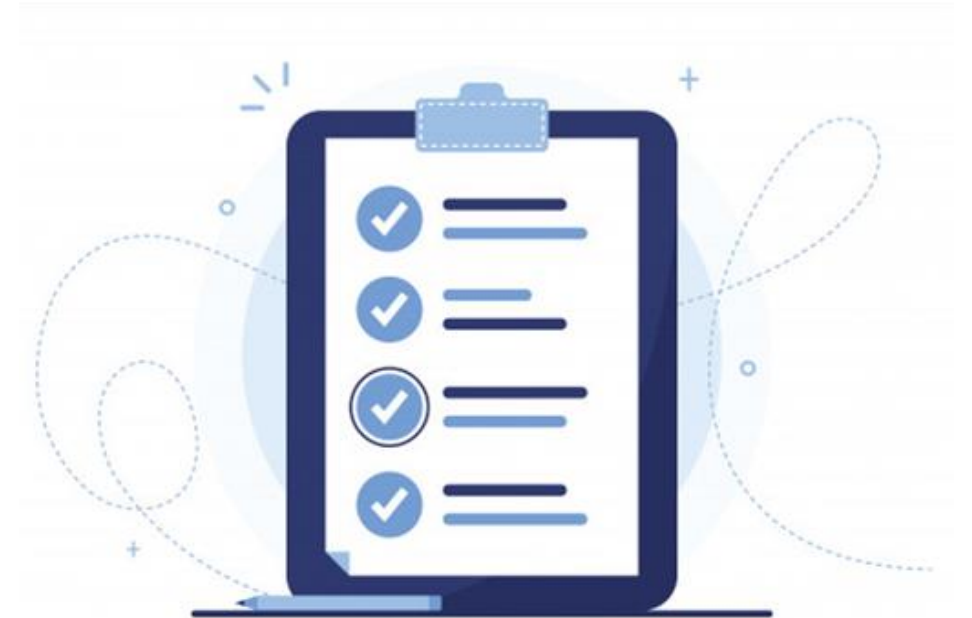
Fundamentals of information security

Overview of Cyber Security



In today's session, you will learn about:

- CIA Triad
- Cyber Security Controls
- Security and Access Control fundamentals
- Common cyber threats



Source: Freepik

What is Information Security?

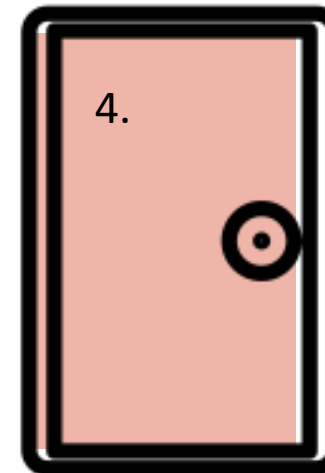
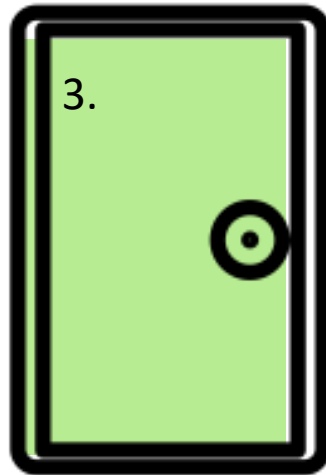
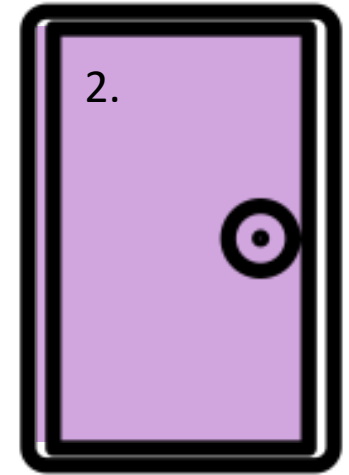
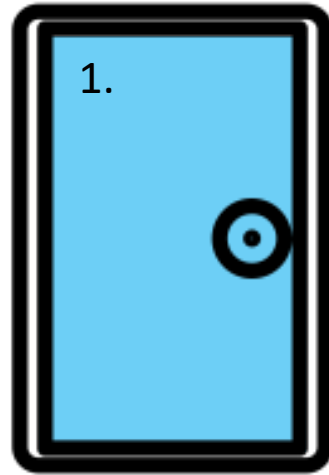


Created by fae frey
from Noun Project

The *CIA triad* is a widely used information security model that can guide an organization's efforts and policies aimed at keeping its data secure.



Source: The Noun Project



- Does this tool make our information more secure?
- Does this service help ensure the integrity of our data?
- Will beefing up our infrastructure make our data more readily available to those who need it?



Source: The Noun Project



What is the key difference between Authorization and Authentication?



Created by fae frey
from Noun Project



AUTHENTICATION

- AUTHENTICATION



AUTHORIZATION

- AUTHORIZATION



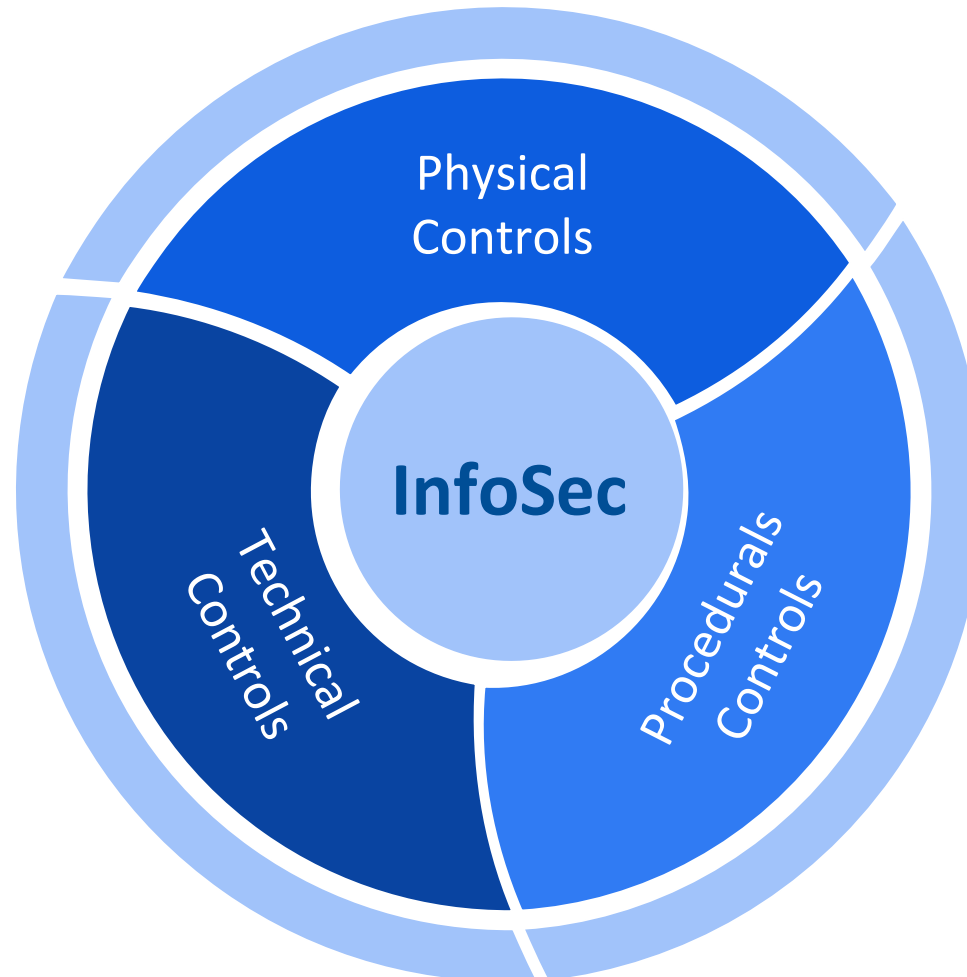
ACCOUNTING

- ACCOUNTING



Source: The Noun Project

Cybersecurity controls are the countermeasures that companies implement to detect, prevent, reduce, or counteract to security risks.



Name a few
Essential Security
Controls.



Created by fae frey
from Noun Project

Essential 8 Security Controls

Prevents attacks



APPLICATION
CONTROL



PATCH
APPLICATIONS



CONFIGURE
MICROSOFT OFFICE
MACROS



USER APPLICATION
HARDENING

Limits extent of attacks



RESTRICT ADMIN
PRIVILEGES



PATCH OPERATING
SYSTEM



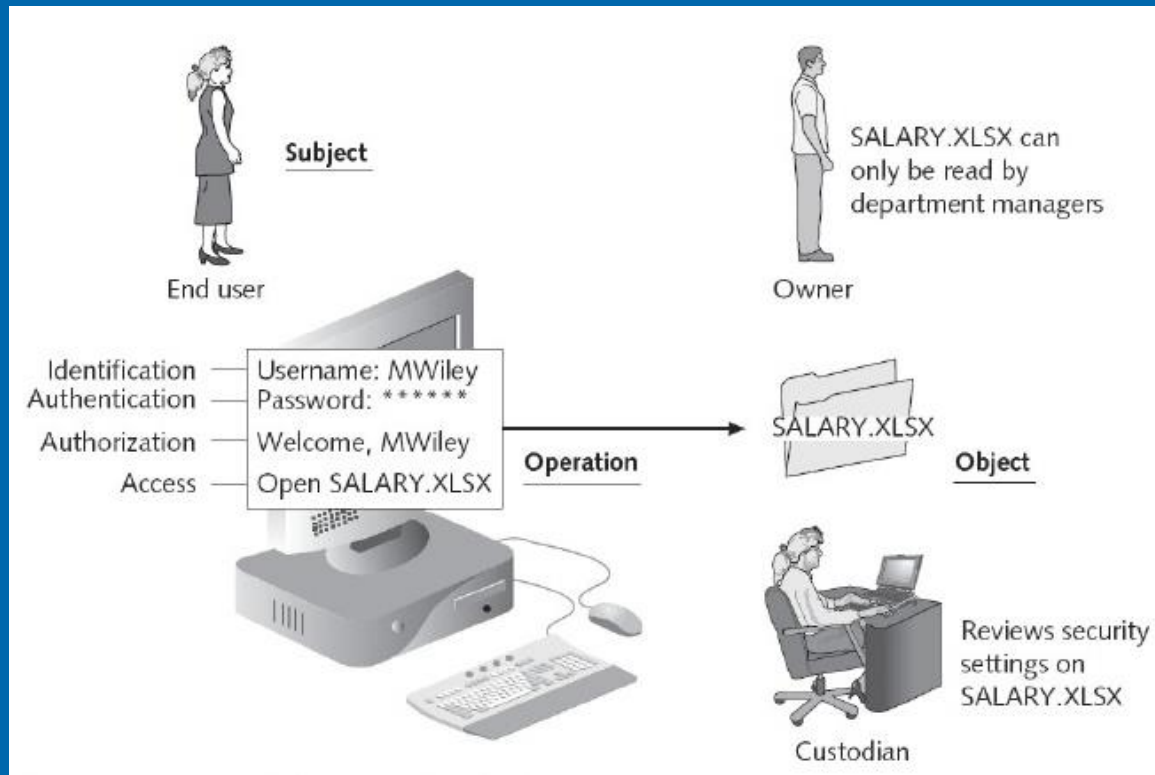
MULTI-FACTOR
AUTHENTICATION

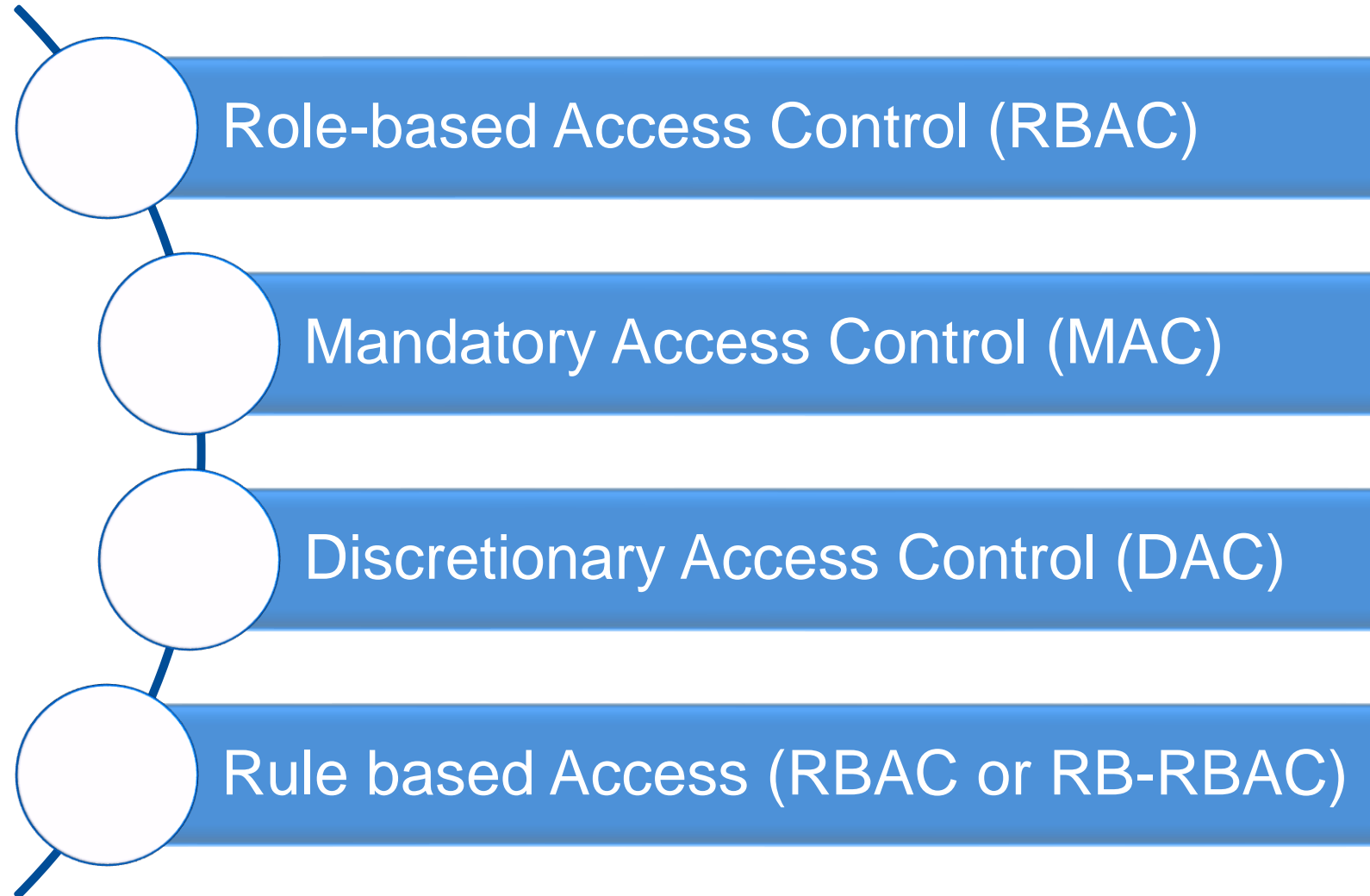
Recovers data & system availability



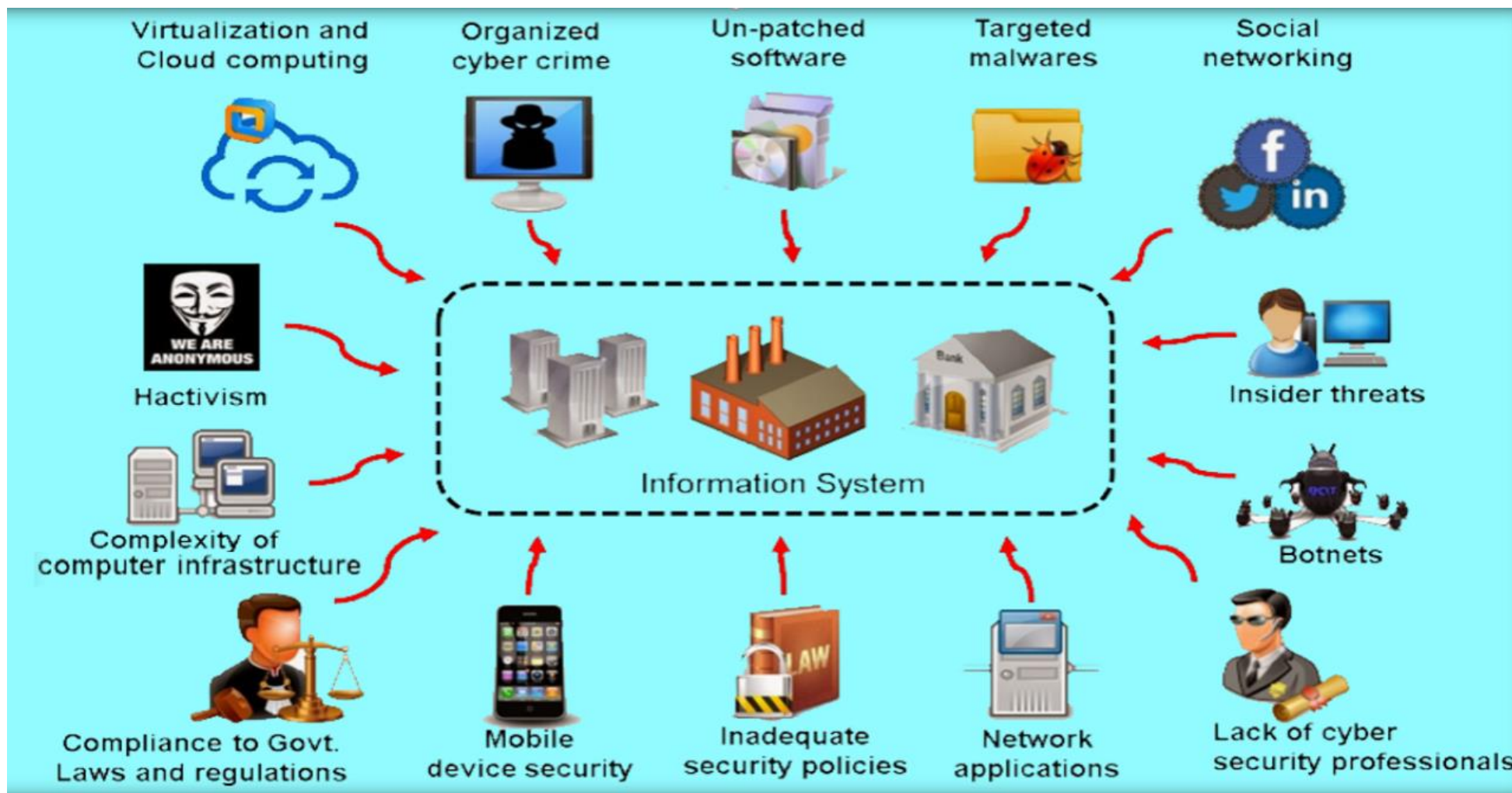
DAILY BACKUPS

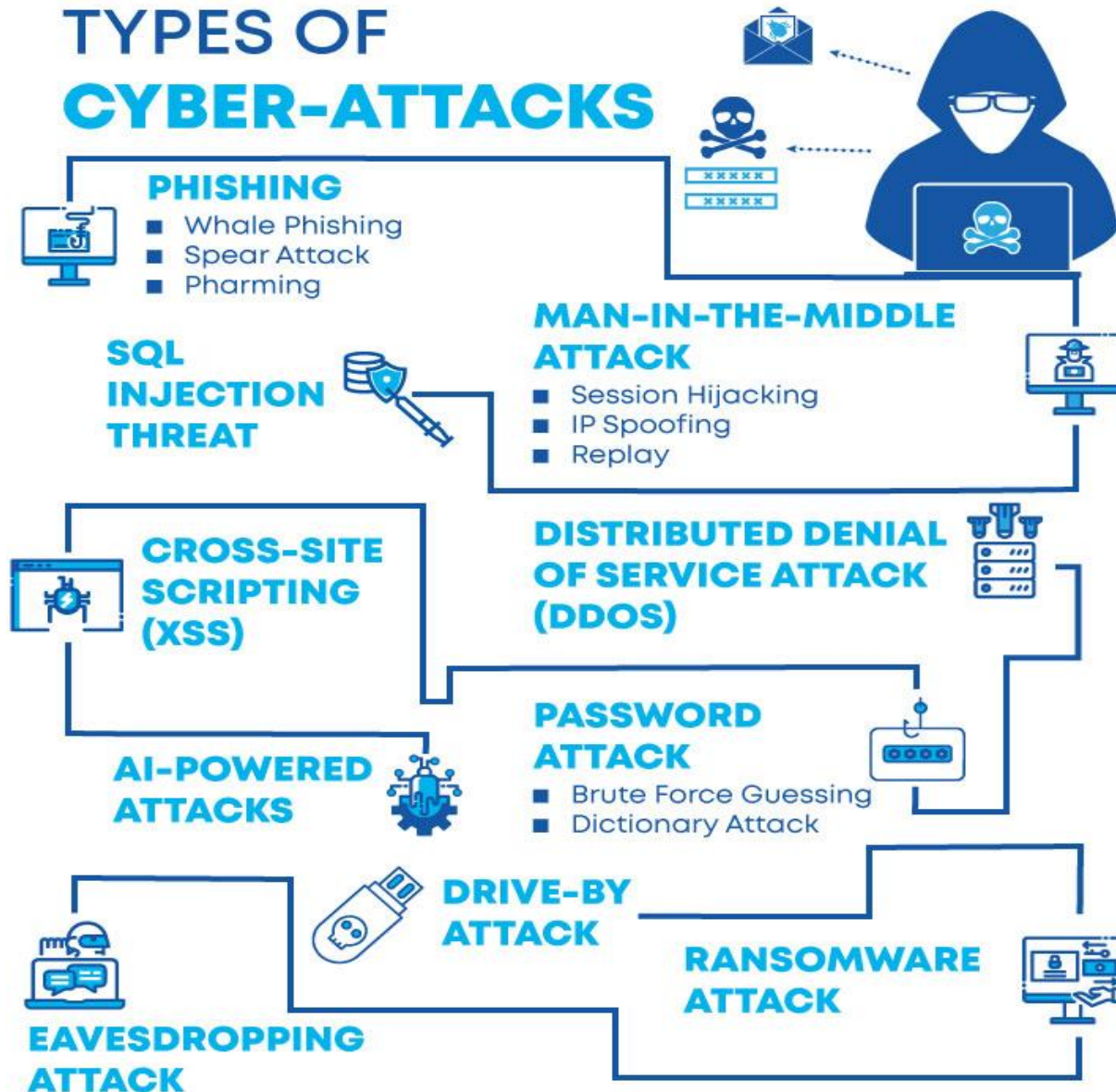
Access control ensures that only authenticated and authorized entities can access resources











Cyber Terrorists

Government-Sponsored/State-Sponsored Actors

Organized Crime/Cybercriminals

Hacktivists

Insiders

Script Kiddies

Internal User Errors

Name of the Activity

Taboo

Instructions

Mode: **In-session**

Duration: **5 minutes**

Materials Required: **None**



In this session, you learnt about:

- CIA Triad
- Cyber Security Controls
- Security and Access Control fundamentals
- Common cyber threats

